

EXHIBIT 42

Gadgets

Teardown x2: Chromecast 2015 & Chromecast Audio



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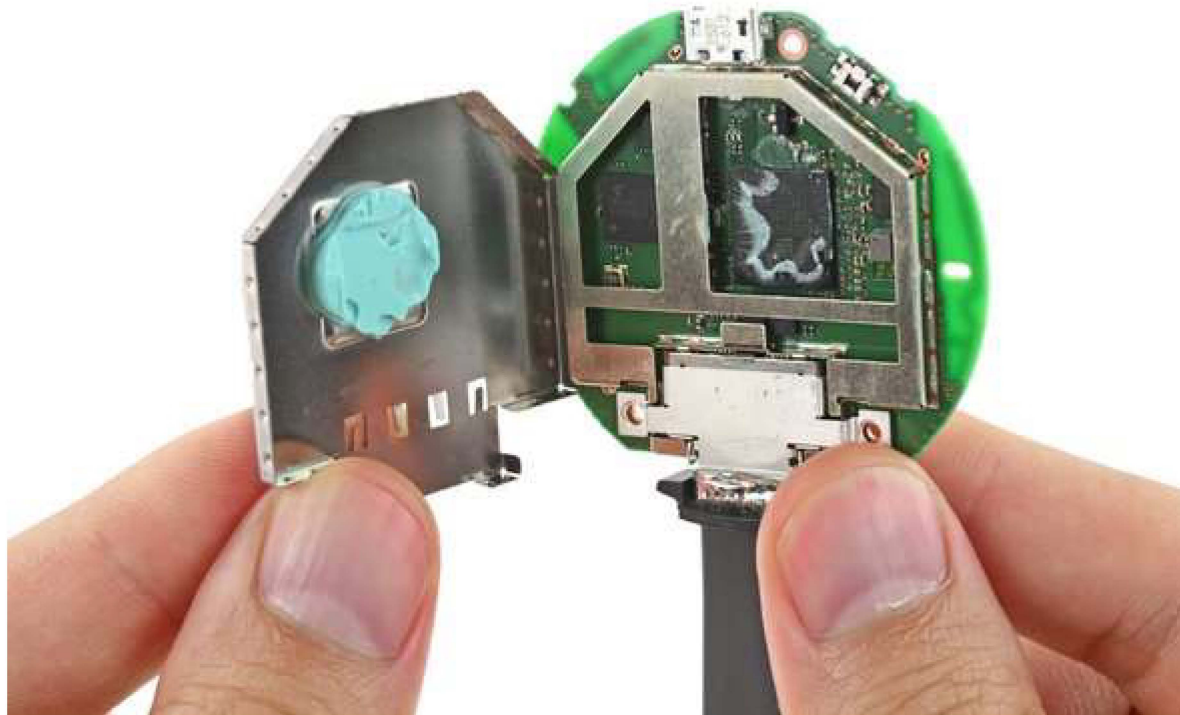
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The streaming device war rages on. It's been 2 years since Google cast its name into the ring, offering up their original streaming device—the Chromecast. Now, they've updated the second generation of their dainty dongle—the [Chromecast 2015](#)—with a new shape and pretty plastic colors. But wait, there's more! Google introduced a new audio-only counterpart to their device-streaming family, the [Chromecast Audio](#). You know what that means? Double the teardown, double the fun!

The last time we had a Chromecast on our teardown table we decided not to assign a repairability score, because there's not much in it to repair. These devices are essentially a board in a box, so we'll refrain from assigning a score and just skip to the part where we tell you about the cool things we found inside:

Chromecast 2015 and Chromecast Audio teardown highlights:

- There's enough thermal compound in here to cool a nuclear reactor—possibly in response to the overheating issues that hounded the original Chromecast.



- We found Google's much-hyped adaptive antenna array patched right into the motherboard, in the form of three integrated PIFA antennas.

- Although the Chromecast 2015 and Audio have some external differences, they're pretty much the same internally, right down to the gobs of baby blue thermal paste. Both models house two functional plastic bits in the lower case: a light guide for the LED indicator, and a nifty lil' reset button.
- We absolutely love the internally detachable HDMI cable. It adds longevity to the Chromecast 2015 by addressing damaged connectors and loose connections.
- Chromecast 2015 hardware:
 - Marvell Avastar 88W8887 VHT WLAN, Bluetooth, NFC and FM Receiver
 - Samsung K4B4G1646D-BY 4 Gb DDR3L SDRAM
 - Marvell Armada 88DE3006 1500 Mini Plus dual-core ARM Cortex-A7 media processor
 - Toshiba TC58NVG1S3H 2 Gb NAND Flash Memory
- Chromecast Audio hardware:
 - Marvell Avastar 88W8887 VHT WLAN, Bluetooth, NFC and FM Receiver
 - Nanya NT5CC128M16IP-DI/EKDDR3L 2Gb SDRAM
 - AKM AK4430 192kHz 24-Bit Stereo DAC
 - Marvell Armada 88DE3006 1500 Mini Plus dual-core ARM Cortex-A7 media processor
 - Toshiba TC58NVG1S3H 2 Gb NAND Flash Memory

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